3.2x2.4mm SMD CHIP LED LAMP



ATTENTION
OBSERVE PRECAUTIONS
FOR HANDLING
ELECTROSTATIC
DISCHARGE
SENSITIVE
DEVICES

KPD-3224PBC

BLUE

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Features

- ●3.2x2.4mm SMT LED, 2.4mm THICKNESS.
- •LOW POWER CONSUMPTION.
- •IDEAL FOR BACKLIGHT AND INDICATOR.
- •VARIOUS COLORS AND LENS TYPES AVAILABLE.
- ●PACKAGE: 1500PCS / REEL.

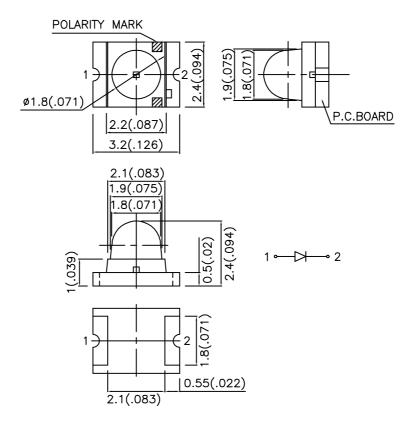
Description

The Blue source color devices are made with InGaN on SiC Light Emitting Diode.

Static electricity and surge damage the LEDS. It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

Package Dimensions



Notes

- All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.1(0.004")$ unless otherwise noted.
- 3. Specifications are subject to change without notice.

SPEC NO: DSAB2512 REV NO: V.7 DATE: MAR/17/2005

APPROVED: J. Lu CHECKED: Allen Liu DRAWN: J.F.WANG

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 20mA Min. Typ.		Viewing Angle
		,			2 0 1/2
KPD-3224PBC	BLUE (InGaN)	WATER CLEAR	110	380	20°

Electrical / Optical Characteristics at Ta=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Blue	468		nm	IF=20mA
λD	Dominant Wavelength	Blue	470		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Blue	25		nm	IF=20mA
С	Capacitance	Blue	65		pF	VF=0V;f=1MHz
VF	Forward Voltage	Blue	3.65	4.2	V	IF=20mA
IR	Reverse Current	Blue		10	uA	VR = 5V

Absolute Maximum Ratings at Ta=25°C

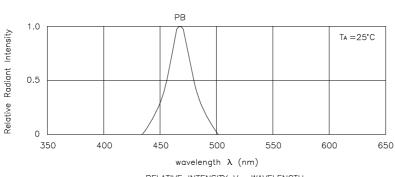
Parameter	Blue	Units	
Power dissipation	102	mW	
DC Forward Current	30	mA	
Peak Forward Current [1]	160	mA	
Reverse Voltage	5	V	
Operating/Storage Temperature	-40°C To +85°C		

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APPROVED: J. Lu **CHECKED: Allen Liu**

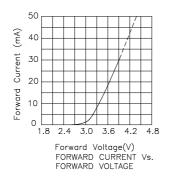
Note: 1. θ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

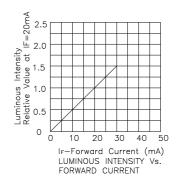
^{1. 1/10} Duty Cycle, 0.1ms Pulse Width.

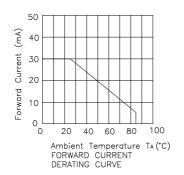


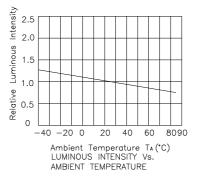
RELATIVE INTENSITY Vs. WAVELENGTH

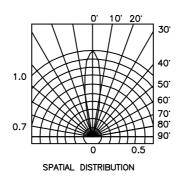
Blue KPD-3224PBC











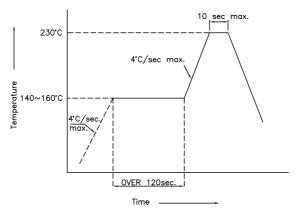
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KPD-3224PBC

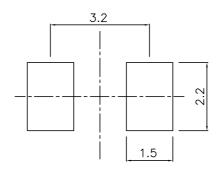
SMT Reflow Soldering Instructions

Number of reflow process shall be 2 times or less and cooling process to normal temperature is required between first and second soldering process.

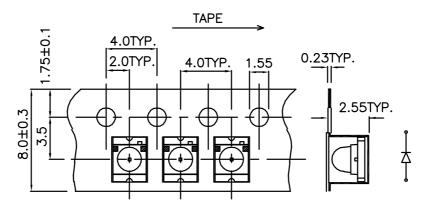


Recommended Soldering Pattern

(Units:mm)



Tape Specifications (Units: mm)



Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity, or wavelength), the typical accuracy of the sorting process is as follows:

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

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